Q2(a)

 u_i : unit cost from central depot to warehouse

 X_{ij} : number of units from warehouse i to retailer j

 c_{ij} : unit cost from warehouse i to retailer j

 D_i : demand of retailer j

$$\min \sum_{i=1}^{10} u_i * \sum_{i=1}^{10} \sum_{j=1}^{15} X_{ij} + \sum_{i=1}^{10} \sum_{j=1}^{15} c_{ij} X_{ij}$$

$$st. \sum_{i=1}^{10} X_{ij} = D_j, \quad \forall j = 1, 2, 3, ..., 15$$

$$\sum_{i=1}^{10} \sum_{j=1}^{15} X_{ij} = 615$$

$$X_{ij} \le 10, X_{ij} \ge 0$$